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United States Patent

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SHOES- A NEW DESIGN

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ABSTRACT

A new design, applicable to most shoe types,

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having isolated, compressible rubber cushions as the only contact points with the ground. These cushions, usually 4 in number, are attached at only key points to an overlying flexible skeleton, made of a durable but bendable support structure. The 'skeleton' in turn is affixed to an overlying compressible 'mattress'. This entire structure, consisting of compressible mattress, skeleton, and cushions duplicates the arch of the foot.

Under the force of walking, running, etc. the rubber cushions will compress to absorb the force of the step. The overlying skeleton will also absorb energy by bowing convex downward at the toes, middle, and heel of the foot. Similarly the air space of the overlying mattress will also be compressed, absorbing pressure.

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